



Patent  
Attorney's Docket No. 002010-742

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of ) **MAIL STOP RCE**  
Mary M. BENDIG et al. )  
Application No.: 09/155,739 ) Group Art Unit: 1644  
Filed: September 11, 1998 ) Examiner: Phillip Gambel, Ph.D.  
For: THERAPEUTIC USES OF HUMANIZED ) Confirmation No.: 9068  
ANTIBODIES AGAINST ALPHA-4- )  
INTEGRIN )

**THIRD  
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The information is submitted before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. Continued examination is requested and the fee required under 37 C.F.R. § 1.17(e) accompanies the present submission.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: July 14, 2003

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SHEET 1 OF 2

Substitute for forms 1449A PTO & 1449B PTO

**THIRD INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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APPLICATION NO.  
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GROUP  
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**U.S. PATENT DOCUMENTS**

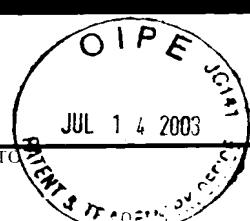
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes No

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	YEDNOCK et al., "Prevention of experimental autoimmune encephalomyelitis by antibodies against $\alpha 4 \beta 1$ integrin," Letters to Nature, vol. 3546, pp. 63-66 (1991).
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	Andrew C. ISSEKUTZ et al., "Monocyte Migration to Arthritis in the Rat Utilizes both CD11/CD18 and Very Late Activation Antigen 4 Integrin Mechanisms," J. Exp. Med. vol. 181 pp. 1197-1203 (1995).
	Andrew C. ISSEKUTZ et al., "A Major Portion of Polymorphonuclear Leukocyte and T Lymphocyte Migration to Arthritic Joints in the Rat Is via LFA-1/MAC-1-Independent Mechanisms," Clinical Immunology and Immunopathology vol. 67(3), pp. 257-263 (1993).
	Paul P. TAK, "Expression of Adhesion Molecules in Early Rheumatoid Synovial Tissue," Clinical Immunology and Immunopathology vol. 77(3) pp. 236-242 (1995).
	Jo C W EDWARDS et al., "Vascular cell adhesion molecule 1 and $\alpha 4$ and $\beta 1$ integrins in lymphocyte aggregates in Sjögren's syndrome and rheumatoid arthritis," Annals of the Rheumatic Diseases vol. 52, pp. 806-811 (1993).
	ACHM van DINOTHER-JANSSEN et al., "Role of the CS1 adhesion motif of fibronectin in T cell adhesion to synovial membrane and peripheral lymph node endothelium," Annals of the Rheumatic Diseases vol. 52, pp. 672-676 (1993).
	Hitoshi ISHIKAWA et al. "Adhesion molecules in the lymphoid cell distribution in rheumatoid synovial membrane," Bulletin Hospital for Joint Diseases vol. 53(2) pp. 23-28 (1993)
	Jeanette MORALES-DUCRET et al., "Vascular Cell Adhesion Molecule-1 Expression in Synovium and on Fibroblast-Like Synoviocytes," The Journal of Immunology vol. 194(4), pp. 1424-1431 (1993).
	Christopher W. MARLOR et al., "Rapid Communication Expression of Vascular Cell Adhesion Molecule-1 in Fibroblastlike Synoviocytes After Stimulation with Tumor Necrosis Factor," American Journal of Pathology vol. 140(5) pp. 1055-1059 (1992).
	Antonio A. POSTIGO et al., "Increased Binding of Synovial T Lymphocytes from Rheumatoid Arthritis to Endothelial-Leukocyte Adhesion Molecule-1 (ELAM-1) and Vascular Cell Adhesion Molecule-1 (VCAM-1)," J. Clin. Invest. vol. 89, pp. 1445-1452 (1992).
	Ann C.H.M. van DINOTHER-JANSSEN et al., "THE VLA-R/VCAM-1 PATHWAY IS INVOLVED IN LYMPHOCYTE ADHESION TO ENDOTHELIUM IN RHEUMATOID SYNOVIUM," The Journal of Immunology vol. 147(12) pp. 4207-4210 (1991)
	Thomas B. ISEKUTZ et al., "T Lymphocyte Migration to Arthritic Joints and Dermal Inflammation in the Rat: Differing Migration Patterns and the Involvement of VLA-4," Clinical Immunology and Immunopathology vol. 61, pp. 436-447 (1991)



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Substitute for forms 1449A/PTO & 1449B/PTO

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Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Armando LAFFÓN et al., "Unregulated Expression and Function of VLA-4 Fibronectin Receptors on Human activated T Cells in Rheumatoid Arthritis," J. Clin. Invest. vol. 88, pp. 546-552 (1991).
Examiner Signature	Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **SEND TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.